

Meeting Date: January 29, 2014

Meeting Notes

Submittal Dates: June 9, 2014 – Submitted to NDEP
October 3, 2014 – NDEP Comments
December 15, 2014 – Revision 1 submitted to NDEP

Place: NV Energy Pearson Building
Las Vegas, Nevada

Project/Purpose: NV Energy - Reid Gardner Station
Implementation of Administrative Order on Consent (AOC)
Quarterly AOC Meeting/Workshop

Attendees: Alison Oakley/NDEP
Brad Cross/ARCADIS U.S., Inc.
John Kivett/ARCADIS U.S. Inc.
Jason Vogel/ ARCADIS U.S. Inc. (via telephone)
Tony Garcia/NV Energy
Jason Reed/NV Energy
Mike Rojo/NV Energy
Andy McNeil/NV Energy
Matt Johns/CH2M Hill
Sergio Escobar/CDWR
Peter Mesard/Exponent
Melanie Edwards/Exponent
Pamela Rey/Exponent (via telephone)
Becky Svatos/Stanley Consultants
Todd Knause/Stanley Consultants
Jonathan Sarich/Stanley Consultants
Cindy Quast/Stanley Consultants
Julie Oriano/Stanley Consultants (via telephone)

Notes By: Jonathan Sarich/Stanley Consultants

A meeting was held between NV Energy and Nevada Division of Environmental Protection (NDEP) representatives on January 29, 2014, to discuss the status of the implementation of the AOC signed by NV Energy and NDEP on February 22, 2008. The primary purpose of this meeting was to conduct a workshop to discuss the Draft Background Conditions Report. Topics discussed during the meeting are summarized below.

Background Conditions Report -The purpose of this workshop was to discuss NDEP's review and verbal comments on the Draft Background Conditions Report submitted to the NDEP on October 4,

2013. Prior to the workshop, NV Energy/CDWR provided their responses to verbal comments made by NDEP on a December 10, 2013, conference call, along with supporting information.

NV Energy/Stamley Consultants stated that the goal of the workshop was to agree on what is needed to get the Background Conditions Report approved in a timely manner.

The timeline of the background activities was summarized as follows: the first Work Plan draft was submitted to NDEP in January 2009; obtaining BLM access for monitoring wells took two years; the field work including soil sampling and four quarters of groundwater sampling that were completed in 2012; in March 2013 a partial report with soil data was submitted; and the complete draft report including groundwater data was submitted in October 2013.

Background Conditions Report - Soil

Background Statistics Discussion –NV Energy had provided NDEP with a decision tree that was used during evaluation of the background data using Pro UCL 5.0 software. ARCADIS U.S. reviewed the decision tree and some of the statistics included in the report. There was discussion about the software program used for the statistics ProUCL5.0, including best practices using the software and limitations of the calculations.

- Recommendations: In general, NDEP agreed with NV Energy's use of ProUCL 5.0 and the associated decision tree to calculate the background statistics. They cautioned that the ProUCL guidance states that the user should avoid using lognormal distribution if there is a large frequency of non-detects, and one should go case by case to see if lognormal distribution is appropriate. ProUCL 5.0 output shows that if there is 95% coverage, the statistical calculations will be completed correctly, however, if there is a small dataset it may not have the coverage to make a decision.

Soil Arsenic BTV Discussion-There was discussion about arsenic concentrations in soil and the proposed arsenic soil background threshold value (BTV). Stamley Consultants/Exponent discussed how the upper tolerance limits (UTL) and upper simultaneous limit (USL) values would be used to compare values to background, and presented information on arsenic at other sites in Clark County. The complexity of the geochemistry at the site was discussed, and whether data from other areas would be comparable to this site. NDEP stated that any background levels for soil must also be protective of groundwater.

- Conclusion: The appropriate site-specific background concentration for arsenic to apply to screening site soil was left unresolved.

Background Conditions Report - Groundwater

Alluvial Groundwater – ARCADIS U.S. presented a timeline for activities at RGS, including station and pond construction, and monitoring well installations. ARCADIS U.S. compared the TDS groundwater data from monitoring well IMW-2.5S over time to events at the Station, suggesting that water quality in this well may not represent background conditions. TDS concentrations at the site were discussed, including fluctuations in other background wells

(specifically on the Mesa) and contamination contours shown on site figures. The filtering techniques of samples were also discussed.

- Recommendation: NDEP suggested evaluating alternative methods for determining the alluvial background screening level, and further evaluation of field sampling techniques including field filtering.
- Conclusion: NDEP feels that the conceptual site model is not robust enough to make decisions on alluvial groundwater background concentrations at this time. The site-specific background concentration for alluvial groundwater was left unresolved.

Muddy Creek North Groundwater – Stiff diagrams of the Raw Water ponds and background monitoring wells were reviewed, along with a cross-section schematic through the Raw Water Ponds. There was discussion that the Raw Water may be influencing wells to the south of the ponds, through the north side of the station. Based on the Stiff diagrams, the monitoring wells clusters BG-4, BG-3, and BG-6 do not appear to be influenced by the Raw Water Ponds.

- Conclusion: NDEP agreed that the Stiff diagrams presented support the conclusion that monitoring wells BG-4, BG-3, and BG-6 are acceptable to use as background wells.

Muddy Creek Mesa Groundwater – There was a brief discussion regarding proposed groundwater BTVs for the Mesa.

- Conclusion: NDEP did not voice any concerns with the Mesa wells and the Muddy Creek Mesa groundwater BTVs.

Muddy River Work Plan – NDEP informed NV Energy that it will take 2-3 months before a financial inter-agency agreement between NDEP and USGS could be implemented for stream gauging of the Muddy River.

- Action Items: NV Energy plans to submit the draft Muddy River Work Plan to NDEP in March, 2014. NDEP requested a sample flux calculation to be added to the work plan showing how NV Energy will demonstrate that the plant is, or is not, affecting Muddy River water quality. NDEP agreed to provide the standard(s) to which NV Energy will be held for potential impacts from groundwater to the Muddy River.

Diesel Recovery System – The system is currently operating and soon operations will be handed over to NV Energy personnel from the contractor hired to update the system, Broadbent.

Laser Induced Fluorescence Investigation Work Plan – NV Energy has submitted the work plan to NDEP and is currently waiting for comments. NV Energy originally requested NDEP to provide comments by February 14, 2014.

- Action Items: NDEP to provide NV Energy with comments on the Laser Induced Fluorescence Investigation Work Plan.

Pond 4A/C1/C2 Solids Removal Work Plans – NDEP noticed a potential discrepancy with Pond 4A groundwater elevations. NV Energy will look at the drawings to make sure the elevations are correct. NDEP emphasized that NV Energy should take as much solids out of the ponds as possible. The proposed start date for the solids removal is June/July 2014. NV Energy requested NDEP to provide comments by March 8, 2014.

Access to Former Dairy Property – Wells located on the former dairy property will be sampled once an access agreement is signed. NV Energy has sent an agreement to the property owner and is waiting for it to be signed. Some of the wells designated with a “KMW–” prefix recently discovered on the property will need to be replaced and all will need to be resurveyed.

NDEP Website – The summary description of the Reid Gardner Station on NDEP’s website has some inaccuracies and needs to be updated. NV Energy will send NDEP some suggested text changes. An updated fact sheet and figure will also be provided to NDEP to be uploaded onto the website.

Next AOC Meeting – The second quarter AOC meeting is scheduled for April 30, 2014. The time and location will be determined at a later date. The third quarter AOC meeting is tentatively scheduled for July 30, 2014 and the fourth quarter AOC meeting is tentatively scheduled for October 29, 2014.

NDEP Action Items from Quarterly AOC Meeting on January 29, 2014

Priority	Deliverables Already Submitted to NDEP	Submittal Date	Party Responsible	Notes
1	Laser Induced Fluorescence (LIF) Work Plan at Former Underground Product Piping, Petroleum Tanks (Source Area 14)	1-16-14	NDEP/ARCADIS U.S.	Requested NDEP to provide comments February 14, 2014.
2	Pond 4A and Ponds C1/C2 Solids Removal Work Plans	1-21-14	NDEP/ARCADIS U.S.	Requested NDEP to provide comments March 8, 2014.
3	Draft Background Report (Complete Report)	10-4-13	NDEP/ARCADIS U.S.	NV Energy to continue to work with the NDEP.
4	2013 Annual GMR	1-28-14	NDEP/ARCADIS U.S.	NDEP to provide comments
5	August 2013 AOC Meeting Minutes	10-3-13	NDEP/ARCADIS U.S.	NDEP to provide comments
6	October 2013 AOC Meeting Minutes	12-30-13	NDEP/ARCADIS U.S.	NDEP to provide comments

Priority	Future Submittals and Action Items	Estimated Delivery Date	Party Responsible	Notes
	NV Energy to write a memo to NDEP summarizing the outcome of the meeting, including a list of issues agreed upon during the meeting.	TBD	NV Energy /Stanley Consultants	
	Work Plan for Muddy River data collection to develop a preliminary flow balance for the Muddy River as it travels through the Station.	First Quarter 2014	NV Energy /Stanley Consultants	
	Provide revised wording suggestions for the NDEP website	TBD	NV Energy /Stanley Consultants	
	Ponds D/G solids removal oversight report	TBD	ARCADIS U.S.	ARCADIS U.S to document their oversight activities

NV Energy – Reid Gardner Station
Implementation of Administrative Order on Consent
Quarterly AOC Meeting
January 29, 2014, 10:00 AM
List of Attendees

Name	Representing	Phone	E-Mail
Alison Oakley	NDEP	775-687-9396	aoakley@ndep.nv.gov
Brad Cross	ARCADIS U.S.	480-905-9311	brad.cross@arcadis-us.com
John Kivett	ARCADIS U.S.	702-485-6000	john.kivett@arcadis-us.com
Jason Vogel	ARCADIS U.S.	315-446-9120	jason.vogel@arcadis-us.com
Tony Garcia	NV Energy	702-402-5767	tgarcia@nvenergy.com
Mike Rojo	NV Energy	702-402-1319	mrojo@nvenergy.com
Jason Reed	NV Energy	702-402-5958	jreed@nvenergy.com
Andy McNeil	NV Energy	702-402-5000	AMcNeil@nvenergy.com
Matt Johns	CH2MHill	702-402-5416	matt.johns@ch2m.com
Becky Svatos	Stanley Consultants	319-626-3990	svatosbecky@stanleygroup.com
Todd Knause	Stanley Consultants	309-925-8292	knausetodd@stanleygroup.com
Jonathan Sarich	Stanley Consultants	702-534-2123	sarichjonathan@stanleygroup.com
Cindy Quast	Stanley Consultants	319-626-5316	quastcindy@stanleygroup.com
Julie Oriano	Stanley Consultants	319-626-5330	orianojulie@stanleygroup.com
Sergio Escobar	CDWR	916-653-9493	sergio.escobar@water.ca.gov
Peter Mesard	Exponent	510-268-5009	pmesard@exponent.com
Melanie Edwards	Exponent	425-519-8714	medwards@exponent.com
Pamela Rey	Exponent	510-268-5062	prey@exponent.com